

Monitoring Data Record

Project Title: U-2307AD COE Action ID: 200031274

Stream Name: UT to Miller Branch DWQ Numbers: 000914 and 001587

City, County and other Location Information: Intersection of East Side Thoroughfare and Tate Boulevard in Hickory (Catawba Co.)

Date Construction Completed: July 2003 Monitoring Year: (2) of 3

Ecoregion: _____ 8 digit HUC unit: 03050101

USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 434' Urban or Rural: Urban Watershed Size: _____

Monitoring DATA collected by: M. Green Date: 10/18/06

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Rd. Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: _____

Consultant Information:

Name: _____

Address: _____

Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 2 3

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: Stability of the natural channel that is being relocated will be monitored for a period of 3 years or at least two bankfull flow events following completion of the channel relocation. Monitoring will include photos, plant survival, and channel stability analysis.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 reference points, 2 photos at each

Dates reference photos have been taken at this site: 4/27/05, 10/18/06

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: _____

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: The stream is highly vegetated for the 2nd year of monitoring. Bareroot seedlings and other vegetation noted on or surrounding the streambank consisted of redbud, river birch, tulip poplar, black willow, mimosa, silky dogwood, sycamore, tag alder, *Juncus* sp., goldenrod, lespedeza, fennel, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The stream is stabilized for the 2nd year of monitoring. Year 1 monitoring visit noted that some of the pools were eroding. Since, that monitoring visit these pools have been armored with larger rocks to minimize the erosion that was taken place.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

UT to Miller Branch



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

UT to Miller Branch



Photo 7



Photo 8

Year 2 – October 2006